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(PCT Article 36 and Rule 70)

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

10 JAN 2005

Applicant's or agent's file reference 3216PTWO/AG/la International application No. PCT/EP 03/07301			FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)					
			International filing date (daylm 08.07.2003	onth/year)	Priority date (day/month) 10.07.2002	year)		
Internation B22D11		t Classification (IPC) or be	oth national classification and IPe	3				
Applicant DANIEL	.1 & C. (OFFICINE MECCAN	ICHE S.P.A. et al.					
1. Thi Aut	is internation	ational preliminary exam nd is transmitted to the	mination report has been pre applicant according to Article	pared by this Inte	rnational Preliminary Ex	xamining		
2. Thi	This REPORT consists of a total of 4 sheets, including this cover sheet.							
×	been	amended and are the	nied by ANNEXES, i.e. sheet basis for this report and/or sh n 607 of the Administrative In	eets containing re	ectifications made before			
The	These annexes consist of a total of 2 sheets.							
		**************************************		·	EPO-DC			
3. Thi	is report	contains indications re	elating to the following items:	<u>.</u> !	0 5. 11. 2004			
1	\boxtimes	Basis of the opinion		•	(117)			
11		Priority						
111			opinion with regard to novelty	/, inventive step a	and industrial applicabili	ity		
IV		Lack of unity of invent						
٧	⊠		under Rule 66.2(a)(ii) with req ions supporting such stateme		ventive step or industri	al applicability;		
VI		Certain documents cit						
VII		Certain defects in the	international application					
Vil	/III Certain observations on the international application							
Date of su	oizzimdu	n of the demand	Date	e of completion of the	nis report			
09.02.2004			28.	28.09.2004				
	ry examir	address of the Internation	nal Auti	norized Officer		Bethicker bringer		
and the same of th	D-8	opean Patent Office 0298 Munich	No	ske, W		(0))}		
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

I. Basis of the report

International application No.

PCT/EP 03/07301

1.	the	Vith regard to the elements of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):					
	Des	Description, Pages					
	1-6	1-6 as originally filed					
	Cla	Claims, Numbers					
	1-3	1-3 received on 13.09.2004 with letter of 10.09.2004					
	Drawings, Sheets						
	1/4-	1/4-4/4 as originally filed					
2.	With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.						
	The	These elements were available or furnished to this Authority in the following language: , which	is:				
		□ the language of a translation furnished for the purposes of the international search (under Ru	ıle 23.1(b)).				
		□ the language of publication of the international application (under Rule 48.3(b)).					
		the language of a translation furnished for the purposes of international preliminary examinate Rule 55.2 and/or 55.3).	ion (under				
3.	Witl inte	With regard to any nucleotide and/or amino acid sequence disclosed in the international applic international preliminary examination was carried out on the basis of the sequence listing:	ation, the				
		□ contained in the international application in written form.					
		filed together with the international application in computer readable form.					
		☐ furnished subsequently to this Authority in written form.					
		furnished subsequently to this Authority in computer readable form.					
		The statement that the subsequently furnished written sequence listing does not go beyond in the international application as filed has been furnished.	he disclosure				
		The statement that the information recorded in computer readable form is identical to the writisting has been furnished.	tten sequence				
4.	The	The amendments have resulted in the cancellation of:					

 \square the description,

the claims,

 \square the drawings,

pages:

Nos.:

sheets:

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International application No.

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5. 🗆	This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).
	(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

- 6. Additional observations, if necessary:
- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)

Yes: Claims
No: Claims
Inventive step (IS)

Yes: Claims
No: Claims
Industrial applicability (IA)

Yes: Claims
No: Claims
No: Claims

2. Citations and explanations

see separate sheet

INTERNATIONAL PRELIMINARY International application No. PCT/EP 03/07301 EXAMINATION REPORT - SEPARATE SHEET

The claimed feature relating to "translating" the mobile deflecting device 5 along a horizontal "rectilinear" trajectory is novel and inventive with respect to nearest prior art D1 WO-A-61 320 as mentioned in the application, paragraph bridging pages 1 and 2, disclosing a pivoting deflecting device.

There is no hint to this feature in any document mentioned in the search report which feature has the advantage of giving a rounded shape to the cast metallic strip earlier, i.e. before the deflecting device 5 is close to its final position and at a stage when the strip is more flexible.

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NEW CLAIMS

- 1. Continuous metallic strip casting plant, comprising:
 - an ingot mould (1), having a pair of counter rotating rolls (2, 2'), adapted to continuously cast a metallic strip (N) along a vertical casting direction;
 - conveying means (6) of said metallic strip, located downstream of said casting direction, adapted to transfer the metallic strip to following processing stations;
 - a mobile deflecting device (5), located lower than said counter rotating rolls and able to deflect an initial portion of the metallic strip deviating it towards said conveying means (6) and, in addition, adapted to pass from a standby position, of not interference with said metallic strip (N), to an operative position of interference with said metallic strip (N), whereby it deflects the initial portion of the strip from the vertical casting direction, characterised by the fact that there are provided motor means for translating said mobile deflecting device (5) along a substantially horizontal rectilinear trajectory from the standby position to the operative position of interference.
- 2. The plant according to claim 1, wherein said deflector device (5) provides a rounded edge (9) in the foremost part with respect to the casting plane.
- 3. A method for continuous metallic strip casting by means of a plant according to one or more of the preceding claims, comprising the following operations:
 - casting of an initial portion of metallic strip of predetermined length in a vertical direction through an ingot mould (1) with counter rotating rolls (2, 2');
 - placing said deflecting device in a interference position with the vertical strip casting direction.
 - when the leading edge of the strip begins to rest upon the surfaces of the deflecting device (5) and to deviate from said substantially vertical path of advancement, making the deflecting device (5) to translate in a horizontal direction such as to deviate the advancing path of the initial strip portion and make it assume a substantially horizontal moving direction;
 - approaching the strip leading edge, through further translation of said deflecting device (5), towards holding and/or drawing devices to grip the front

edge of the strip and draw it towards predetermined processing stations;

- translating in a horizontal direction said deflecting device (5) in a direction of its removal from the strip.